

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) An illumination system comprising:

a set of a pre-determined number of light emitters arranged along a line with N positions, each light emitter outputting a single color, the arrangement of colors along the line not being formed of symmetrical patterns,

the set having at least three subsets of light emitters, each subset including only light emitters that emit substantially the same color, each respective subset having light emitters that output a color different from the light emitters in other subsets, each subset having at least three light emitters,

the light emitters of the subset with the fewest number of light emitters, relative to the number of light emitters in each of the remaining subsets in the set, being assigned to respective substantially equidistant positions along the the line of N positions, the subset with the fewest number of light emitters being a first subset,

the light emitters of the subset with the second fewest number of light emitters, relative to the number of light emitters in each of the remaining subsets in the set, being assigned to respective substantially equidistant positions along the the line of N positions which are not yet occupied by the first subset, the subset with the second fewest number of light emitters being a second subset,

the light emitters of the subset with the third fewest number of light emitters, relative to the number of light emitters in each of any remaining subsets in the set, being assigned to respective substantially equidistant positions along the the line of N positions which are not yet occupied by the first subset or the second subset, the subset with the third fewest number of light emitters being a third subset, except, if the third subset has the greatest number of light emitters in the set, those light emitters in the third subset are assigned to the positions which are not yet occupied.

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2. (original) An illumination system as claimed in claim 1, wherein the assignment of the light emitters of the set takes into account mirroring effects at a beginning and at an end of the line.
3. (original) An illumination system as claimed in claim 1, wherein at least one of the subsets of light emitters comprises at least one light emitter with a luminous light output substantially lower than an average light output of light emitters in said subset, said one light emitter being assigned to an area of the line where a distance between light emitters of said subset is smaller than an average distance between light emitters of said subset.
4. (original) An illumination system as claimed in claim 1, wherein at least one of the subsets of light emitters comprises:
- at least a first light emitter with a luminous light output substantially higher than the average light output of light emitters in said subset; and
 - at least a second light emitter with a luminous light output substantially lower than the average light output of light emitters in said subset;
 - said first and second light emitter being positioned close to each other relative to positions of other light emitters in the at least one subset.
5. (original) An illumination system as claimed in claim 1, wherein at least one of the subsets of light emitters comprises at least one light emitter with color tri-stimulus values differing from an average color tri-stimulus values of the light emitters in said subset, said light emitter being assigned to an area of the line where a distance between light emitters of said subset is smaller than an average distance between light emitters of said subset.
6. (original) An illumination system as claimed in claim 1 comprising at least three subsets of light emitters, the difference in color tri-stimulus values between a first and a second subset being larger than between the other subsets, the light emitters of said first and

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second subsets being arranged close to each other relative to placement of light emitters from the third subset.

7. (original) An illumination system as claimed in claim 1, wherein the light emitters are arranged at equidistant positions.

8. (original) An illumination system as claimed in claim 1, wherein the illumination system comprises a plurality of sets of the pre-determined number of light emitters, the light emitters of each set being arranged along the line.

9. (original) An illumination system as claimed in claim 8, wherein the light emitters are arranged in an identical manner in each set.

10. (currently amended) A display device comprising a backlight illumination system, the backlight illumination system comprising:

a set of a pre-determined number of light emitters arranged along a line with N positions, each light emitter outputting a single color, the arrangement of colors along the line not being formed of symmetrical patterns,

the set having at least three subsets of light emitters, each subset including only light emitters that emit substantially the same color, each respective subset having light emitters that output a color different from the light emitters in other subsets, each subset having at least three light emitters,

the light emitters of the subset with the fewest number of light emitters relative to the number of light emitters in each of the remaining subsets in the set, being assigned to respective substantially equidistant positions along the the line of N positions, the subset with the fewest number of light emitters being a first subset,

the light emitters of the subset with the second fewest number of light emitters relative to the number of light emitters in each of the remaining subsets in the set, being

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assigned to respective substantially equidistant positions along the the line of N positions which are not yet occupied by the first subset, the subset with the second fewest number of light emitters being a second subset,

the light emitters of the subset with the third fewest number of light emitters relative to the number of light emitters in each of any remaining subsets in the set, being assigned to respective substantially equidistant positions along the the line of N positions which are not yet occupied by the first subset or the second subset, the subset with the third fewest number of light emitters being a third subset, except, if the third subset has the greatest number of light emitters in the set, those light emitters in the third subset are assigned to the positions which are not yet occupied.

11. (original) A display device as claimed in claim 10, further comprising a liquid crystal display.

12. (currently amended) A method of arranging light emitters in an illumination system, the method comprising:

providing a set of a pre-determined number of light emitters arranged along a line with N positions, each light emitter outputting a single color, the arrangement of colors along the line not being formed of symmetrical patterns, the set having at least three subsets of light emitters, each subset including only light emitters that emit substantially the same color, each respective subset having light emitters that output a color different from the light emitters in other subsets, each subset having at least three light emitters;

assigning the light emitters of the subset with the fewest number of light emitters, relative to the number of light emitters in each of the remaining subsets in the set, to respective substantially equidistant positions along the the line of N positions, the subset with the fewest number of light emitters being a first subset,

assigning the light emitters of the subset with the second fewest number of light emitters, relative to the number of light emitters in each of the remaining subsets in the set, to

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respective substantially equidistant positions along the the line of N positions which are not yet occupied by the first subset, the subset with the second fewest number of light emitters being a second subset,

assigning the light emitters of the subset with the third fewest number of light emitters, relative to the number of light emitters in each of any remaining subsets in the set, to respective substantially equidistant positions along the the line of N positions which are not yet occupied by the first subset or the second subset, the subset with the third fewest number of light emitters being a third subset, except, if the third subset has the greatest number of light emitters in the set, those light emitters in the third subset are assigned to the positions which are not yet occupied.

13. (original) A method as claimed in claim 12, wherein at least one of the subsets of light emitters comprises at least one light emitter with a luminous light output substantially lower than an average light output of light emitters in said subset, the method further comprising:

assigning said one light emitter to a position where a distance between light emitters of said subset is smaller than an average distance between light emitters of said subset.

14. (original) A method as claimed in claim 12, wherein at least one of the subsets of light emitters comprises at least a first light emitter with a luminous light output substantially higher than the average light output of light emitters in said subset, and at least a second light emitter with a luminous light output substantially lower than the average light output of light emitters in said subset, the method further comprising:

assigning said first and second light emitters to positions close to each other relative to positions of other light emitters in the at least one subset.

15. (original) A method as claimed in claim 12, wherein at least one of the subsets of light emitters comprises at least one light emitter with color tri-stimulus values differing from

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an average color tri-stimulus values of the light emitters in said subset, the method further comprising:

assigning said light emitter to a position where a distance between light emitters of said subset is smaller than an average distance between light emitters of said subset.

16. (original) A method as claimed in claim 12, wherein the illumination system comprises at least three subsets of light emitters, the difference in color tri-stimulus values between a first and a second subset being larger than between the other subsets, the method further comprising:

assigning the light emitters of said first and second subsets positions close to each other relative to positions of light emitters from the third subset.

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